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APPLICATION NO.	FILING DATE	FIRST NAMED INVENTOR	ATTORNEY DOCKET NO.	CONFIRMATION NO.
10/762,164	01/21/2004	Liang-Gi Yao	2002-0246/24061.477	3763
42717 7	590 07/17/2006		EXAMINER	
HAYNES AND BOONE, LLP 901 MAIN STREET, SUITE 3100 DALLAS, TX 75202			ERDEM, FAZLI	
			ART UNIT	PAPER NUMBER
DALLINO, TA	13202		2826	
			DATE MAILED: 07/17/200	4

Please find below and/or attached an Office communication concerning this application or proceeding.

	A 11 - 41 N1 -	Auglicont(a)				
	Application No.	Applicant(s)				
Office Action Symmony	10/762,164	YAO ET AL.				
Office Action Summary	Examiner	Art Unit				
	Fazli Erdem	2826				
The MAILING DATE of this communication app Period for Reply						
A SHORTENED STATUTORY PERIOD FOR REPLY WHICHEVER IS LONGER, FROM THE MAILING DA Extensions of time may be available under the provisions of 37 CFR 1.13 after SIX (6) MONTHS from the mailing date of this communication. If NO period for reply is specified above, the maximum statutory period was period for reply within the set or extended period for reply will, by statute, Any reply received by the Office later than three months after the mailing earned patent term adjustment. See 37 CFR 1.704(b).	ATE OF THIS COMMUNICATION 6(a). In no event, however, may a reply be tirn ill apply and will expire SIX (6) MONTHS from cause the application to become ABANDONE!	N. nely filed the mailing date of this communication. D (35 U.S.C. § 133).				
Status						
1) Responsive to communication(s) filed on 23 June 2006.						
——————————————————————————————————————						
closed in accordance with the practice under <i>Ex parte Quayle</i> , 1935 C.D. 11, 453 O.G. 213.						
Disposition of Claims						
4)⊠ Claim(s) <u>28-41</u> is/are pending in the application.						
•	4a) Of the above claim(s) is/are withdrawn from consideration.					
5) Claim(s) is/are allowed.						
6) Claim(s) <u>28,31,33,37,40 and 41</u> is/are rejected						
	Claim(s) 9,30,32,34-36,38 and 39 is/are objected to.					
8) Claim(s) are subject to restriction and/or election requirement.						
Application Papers						
9) The specification is objected to by the Examiner.						
10)☐ The drawing(s) filed on is/are: a)☐ accepted or b)☐ objected to by the Examiner.						
	Applicant may not request that any objection to the drawing(s) be held in abeyance. See 37 CFR 1.85(a).					
Replacement drawing sheet(s) including the correct						
11)☐ The oath or declaration is objected to by the Ex	caminer. Note the attached Office	e Action of form PTO-192.				
Priority under 35 U.S.C. § 119						
12) Acknowledgment is made of a claim for foreign priority under 35 U.S.C. § 119(a)-(d) or (f). a) All b) Some * c) None of:						
1. Certified copies of the priority documents have been received.						
2. Certified copies of the priority documents have been received in Application No						
3. Copies of the certified copies of the priority documents have been received in this National Stage						
application from the International Burea		ad.				
* See the attached detailed Office action for a list	or the certified copies not receive	eu.				
Attachment(s)	_					
Notice of References Cited (PTO-892) Notice of Draftsperson's Patent Drawing Review (PTO-948)	4) Interview Summary Paper No(s)/Mail D					
2) Notice of Draftsperson's Patent Drawing Review (PTO-948) 3) Information Disclosure Statement(s) (PTO-1449 or PTO/SB/08) Paper No(s)/Mail Date		Patent Application (PTO-152)				

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DETAILED ACTION

After further search and consideration this action is issued and made non-final.

Allowable Subject Matter

1. Claims 29, 30, 32, 34-36, 38, 39 objected to as being dependent upon a rejected base claim, but would be allowable if rewritten in independent form including all of the limitations of the base claim and any intervening claims.

Claim Rejections - 35 USC § 103

- 2. The following is a quotation of 35 U.S.C. 103(a) which forms the basis for all obviousness rejections set forth in this Office action:
 - (a) A patent may not be obtained though the invention is not identically disclosed or described as set forth in section 102 of this title, if the differences between the subject matter sought to be patented and the prior art are such that the subject matter as a whole would have been obvious at the time the invention was made to a person having ordinary skill in the art to which said subject matter pertains. Patentability shall not be negatived by the manner in which the invention was made.
- 3. Claims 28, 31, 33, 37, 40 and 41 rejected under 35 U.S.C. 103(a) as being unpatentable over Yu et al. (6,784,101) in view of rim (6,603,156).

Regarding Claims 28, 31, 33, 37, 40 and 41, Yu et al. disclose formation of high-k gate dielectric layers for MOS devices fabricated on strained lattice semiconductor substrates with minimized stress relaxation where in Fig. 7 a semiconductor substrate comprising a strained lattice semiconductor layer at an upper surface and high-k dielectric layer 6 and semiconductor gate/device structure 8 disclosed over the high-k dielectric layer. Yu et al. fail to disclose the required epi-silicon structure and the required type of high-k dielectric layer. However, Rim discloses a strained silicon on insulator structures wherein Fig. 1, layer 12 is epi-silicon layer. Furthermore, Rim discloses the required type of high-k dielectric layer in paragraph 14.

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It would have been obvious to one of having ordinary skill in the art at the time the invention was made to include the required epi-silicon layer and the required type of gate dielectric in Yu et al. as taught by Rim in order to have a semiconductor device with increased reliability and performance.

Conclusion

Any inquiry concerning this communication or earlier communications from the examiner should be directed to Fazli Erdem whose telephone number is (571) 272-1914. The examiner can normally be reached on M - F 8:00 - 5:00.

If attempts to reach the examiner by telephone are unsuccessful, the examiner's supervisor, Nathan Flynn can be reached on (571) 272-1915. The fax phone number for the organization where this application or proceeding is assigned is 571-273-8300.

Information regarding the status of an application may be obtained from the Patent Application Information Retrieval (PAIR) system. Status information for published applications may be obtained from either Private PAIR or Public PAIR. Status information for unpublished applications is available through Private PAIR only. For more information about the PAIR system, see http://pair-direct.uspto.gov. Should you have questions on access to the Private PAIR system, contact the Electronic Business Center (EBC) at 866-217-9197 (toll-free). If you would like assistance from a USPTO Customer Service Representative or access to the automated information system, call 800-786-9199 (IN USA OR CANADA) or 571-272-1000.

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July 4, 2006

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